

72357 OUN Norman Observations at 00Z 26 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	92									
972.0	345	33.6	22.6	53	18.13	165	7	309.2	364.8	312.6
966.0	401	33.0	22.0	52	17.57	166	8	309.2	363.0	312.4
943.9	610	31.0	20.5	54	16.37	170	12	309.2	359.3	312.2
925.0	792	29.2	19.2	55	15.38	165	11	309.2	356.2	312.0
912.4	914	28.0	18.9	58	15.34	160	12	309.2	356.1	312.0
897.0	1066	26.6	18.6	61	15.28	170	12	309.2	355.9	312.0
881.5	1219	25.2	17.9	64	14.85	180	12	309.3	354.8	312.1
850.0	1539	22.4	16.4	69	14.00	170	13	309.6	352.5	312.2
822.1	1829	20.0	14.0	68	12.34	170	15	310.0	347.9	312.3
818.0	1872	19.6	13.6	68	12.11	174	14	310.0	347.3	312.3
811.0	1946	19.8	9.8	52	9.46	182	13	311.0	340.4	312.8
805.0	2010	21.2	2.2	28	5.60	188	12	313.2	331.1	314.2
793.5	2134	20.8	0.5	26	5.01	200	10	314.0	330.2	315.0
788.0	2195	20.6	-0.4	24	4.74	205	10	314.4	329.8	315.3
765.9	2438	18.7	0.1	29	5.05	225	9	314.9	331.2	315.9
743.0	2698	16.6	0.6	34	5.41	221	11	315.4	332.9	316.4
739.1	2743	16.4	0.1	33	5.24	220	11	315.6	332.6	316.6
700.0	3203	13.8	-5.2	26	3.73	215	11	317.7	330.1	318.4
674.0	3520	11.4	-11.6	19	2.35	229	8	318.5	326.5	319.0
662.8	3658	10.4	-11.3	21	2.45	235	6	318.9	327.2	319.3
626.0	4130	6.8	-10.2	29	2.83	297	8	320.0	329.6	320.6
617.0	4249	5.8	-6.2	42	3.92	313	9	320.2	333.3	321.0
615.6	4267	5.7	-6.6	41	3.82	315	9	320.3	333.1	321.1
602.0	4450	4.8	-10.2	33	2.94	325	12	321.3	331.3	321.9
599.0	4490	4.8	-15.2	22	1.97	328	12	321.8	328.6	322.2
590.0	4614	5.0	-20.0	14	1.33	335	14	323.4	328.2	323.7
584.0	4697	4.2	-12.8	28	2.46	340	15	323.4	331.9	323.9
579.0	4766	3.4	-4.6	56	4.72	344	16	323.3	339.1	324.2
575.0	4823	3.4	-5.6	52	4.40	347	17	323.9	338.7	324.8
571.1	4877	3.4	-13.3	28	2.41	350	18	324.5	332.9	325.0
571.0	4879	3.4	-13.6	28	2.36	350	18	324.6	332.8	325.0
555.0	5109	1.8	-7.2	51	4.03	353	15	325.3	339.0	326.1
523.0	5584	-1.9	-9.9	54	3.47	360	9	326.4	338.3	327.1
500.0	5940	-3.7	-14.7	42	2.46	5	4	328.5	337.1	328.9
490.2	6096	-4.6	-17.1	37	2.05	345	3	329.2	336.6	329.6
487.0	6149	-4.9	-17.9	35	1.93	343	3	329.5	336.4	329.9
478.0	6296	-4.9	-23.9	21	1.17	337	4	331.2	335.6	331.5
456.0	6666	-7.7	-22.7	29	1.36	321	5	332.2	337.2	332.5
452.0	6735	-7.9	-27.9	18	0.86	318	5	332.8	336.1	333.0
440.0	6944	-9.1	-26.1	24	1.04	309	6	333.9	337.8	334.1
435.0	7033	-9.3	-32.3	14	0.59	305	7	334.7	337.0	334.8
418.0	7342	-10.7	-35.7	11	0.44	292	8	336.7	338.5	336.8
403.1	7620	-12.7	-36.9	11	0.40	280	9	337.7	339.3	337.8
400.0	7680	-13.1	-37.1	11	0.40	275	9	337.9	339.5	338.0
371.1	8230	-17.4	-40.9	11	0.29	310	14	339.4	340.6	339.5
327.6	9144	-24.6	-47.2	10	0.17	255	9	341.9	342.6	341.9
314.3	9449	-27.0	-49.3	10	0.14	275	11	342.6	343.2	342.6
300.0	9790	-29.7	-51.7	10	0.11	260	10	343.4	343.9	343.4
264.7	10668	-37.0	-57.6	10	0.06	240	12	345.3	345.5	345.3
250.0	11070	-40.3	-60.3	10	0.05	255	11	346.0	346.2	346.0
242.4	11278	-42.3	-60.4	12	0.05	255	11	346.1	346.3	346.1
238.0	11403	-43.5	-60.5	14	0.05	257	11	346.1	346.3	346.1

200.0	12550	-52.5	-66.5	17	0.02	275	7	349.5	349.6	349.5
184.0	13081	-57.1	-70.1	18	0.02	247	9	350.4	350.5	350.4
163.0	13835	-62.3	-73.3	22	0.01	207	12	354.1	354.1	354.1
153.0	14221	-65.9	-76.9	20	0.01	187	14	354.4	354.4	354.4
150.0	14340	-66.7	-76.7	23	0.01	180	14	355.0	355.0	355.0
142.9	14630	-68.3	-77.9	24	0.01	195	13	357.2	357.2	357.2
131.0	15152	-71.1	-80.1	25	0.01	182	12	361.1	361.2	361.1
129.1	15240	-71.7	-80.7	25	0.00	180	12	361.6	361.6	361.6
121.0	15619	-74.3	-83.3	24	0.00	195	8	363.6	363.6	363.6
116.3	15850	-76.0				205	6	364.5		364.5
114.0	15965	-76.9				210	6	365.0		365.0
109.0	16224	-75.5				197	13	372.3		372.3
107.0	16332	-73.3				191	16	378.5		378.5
104.7	16459	-73.6				185	19	380.2		380.2
104.0	16499	-73.7				201	17	380.8		380.8
102.0	16613	-72.3				248	12	385.6		385.6
100.0	16730	-72.3				295	7	387.8		387.8
92.6	17181	-71.9				345	6	397.2		397.2
91.5	17251	-70.5				353	6	401.3		401.3
83.4	17803	-68.3				53	6	416.6		416.6
77.3	18257	-68.1				102	5	426.1		426.1
76.9	18288	-67.7				105	5	427.6		427.6
72.6	18637	-63.3				123	11	444.0		444.0
70.0	18860	-63.1				135	14	449.1		449.1
61.5	19663	-60.5				120	17	471.7		471.7
59.2	19902	-58.7				115	18	480.9		480.9
50.0	20970	-57.1				95	22	508.5		508.5
47.9	21242	-56.3				99	23	516.7		516.7
47.2	21336	-56.8				100	23	517.7		517.7
45.1	21623	-58.3				95	22	520.8		520.8
40.8	22256	-56.5				85	19	540.4		540.4
37.7	22756	-57.5				77	18	550.2		550.2
35.6	23120	-55.7				71	16	563.9		563.9
35.4	23165	-55.7				70	16	565.1		565.1
30.6	24079	-55.5				65	30	589.2		589.2
30.0	24210	-55.5				80	34	592.7		592.7
29.7	24274	-55.7				82	34	593.9		593.9
29.2	24384	-54.9				85	34	598.9		598.9
26.6	24994	-50.7				90	38	627.3		627.3
26.0	25133	-49.7				90	37	633.9		633.9
22.7	26019	-50.5				93	29	656.6		656.6
21.0	26518	-48.7				95	25	676.4		676.4
20.3	26752	-47.9				91	26	685.9		685.9
20.0	26850	-48.1				90	27	688.2		688.2
19.5	27017	-48.7				90	28	691.3		691.3
18.3	27432	-46.0				90	29	712.4		712.4
17.8	27621	-44.7				91	32	722.2		722.2
16.0	28346	-43.8				95	41	747.7		747.7
15.3	28637	-43.5				81	39	758.1		758.1
14.6	28956	-44.3				65	36	765.7		765.7
13.9	29261	-45.1				75	43	773.0		773.0
13.8	29328	-45.3				79	42	774.7		774.7
13.3	29566	-44.8				95	38	784.4		784.4
11.6	30480	-42.7				80	31	822.8		822.8
10.6	31103	-41.3				80	34	850.0		850.0
10.0	31500	-39.9				80	36	869.5		869.5
9.3	32000	-37.7				82	38	896.0		896.0
7.5	33528	-34.1				90	43	968.5		968.5
7.3	33692	-33.7				92	46	976.5		976.5
7.0	33990	-29.7				95	52	1004.8		1004.8
6.9	34138	-27.0				80	55	1021.8		1021.8

6.9	34093	-27.1	85	54	1019.8	1019.8
6.6	34414	-26.7			1034.5	1034.5

Station information and sounding indices

Station identifier: OUN
Station number: 72357
Observation time: 150726/0000
Station latitude: 35.18
Station longitude: -97.44
Station elevation: 345.0
Showalter index: -1.50
Lifted index: -3.83
LIFT computed using virtual temperature: -4.71
SWEAT index: 226.79
K index: 23.50
Cross totals index: 20.10
Vertical totals index: 26.10
Totals totals index: 46.20
Convective Available Potential Energy: 1966.54
CAPE using virtual temperature: 2202.07
Convective Inhibition: -106.55
CINS using virtual temperature: -24.60
Equilibrium Level: 136.25
Equilibrium Level using virtual temperature: 136.17
Level of Free Convection: 677.43
LFCT using virtual temperature: 745.03
Bulk Richardson Number: 218.49
Bulk Richardson Number using CAPV: 244.66
Temp [K] of the Lifted Condensation Level: 291.34
Pres [hPa] of the Lifted Condensation Level: 812.31
Mean mixed layer potential temperature: 309.18
Mean mixed layer mixing ratio: 16.51
1000 hPa to 500 hPa thickness: 5848.00
Precipitable water [mm] for entire sounding: 37.66

Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)
